

## **ABSTRACT**

A manufacture method for forming a disposable plate electrode with biological active film is used to cooperate with a biological sensor for analyzing composition and measuring concentration of a test sample according to electric effect resulted from a biochemical reaction. The plate electrode comprises at least an electrode portion for transmission of the electric effect as well as a biological active film that reacts with the test sample chemically or biochemically. The biological active film contains a carrier layer (cellulose, for example) for adsorbing and keeping the biological active substance (enzyme, for example), which, the carrier layer, can change the electrode portion from hydrophobic into hydrophilic and protect the biological active substance against impairment during relatively higher temperature drying process. The method for forming a biological active film on the disposable electrode is mainly based on screen printing technique to form a conductive film, an electric insulating layer, a carrier layer, etc, for speedy production and low cost purpose.

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